PREScore 4.0
NPL Characteristics Data Collection Form
Wilcox Oil Company - 03/27/97

Record Information

1. Site Name: Wilcox Oil Company
   (as entered in CERCLIS)
2. Site CERCLIS Number: OKD001010917
3. Site Reviewer: Diane G. Williams
4. Date: March 1997
5. Site Location: Bristow/Creek County, OK
   (City/County,State)
6. Congressional District:
7. Site Coordinates: Multiple

   Latitude: 35°50'31.0" Longitude: 096°23'02.0"

Site Description

1. Setting: Suburban
2. Current Owner: Private - Individual
3. Current Site Status: Inactive
4. Years of Operation: Inactive Site,from and to dates: 1920 to 1963
5. How Initially Identified: State/Local Program
6. Entity Responsible for Waste Generation:

   - Other - Refinery

7. Site Activities/Waste Deposition:

   - Surface Impoundment
   - Tanks - Above Ground

Waste Description

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NPL Characteristics Data Collection Form
Wilcox Oil Company - 03/27/97

8. Wastes Deposited or Detected Onsite:

- Organic Chemicals
- Inorganic Chemicals
- Metals
- Oily Waste
- Lead

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NPL Characteristics Data Collection Form
Wilcox Oil Company - 03/27/97

Response Actions

9. Response/Removal Actions:

RCRA Information

10. For All Active Facilities, RCRA Site Status:

    - Not Applicable

Demographic Information

11. Workers Present Onsite: No

12. Distance to Nearest Non-Worker Individual: Onsite

13. Residential Population Within 1 Mile: 2393.0

14. Residential Population Within 4 Miles: 6618.0

Water Use Information

15. Local Drinking Water Supply Source:

    - Ground Water (within 4 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: 4679.0

17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:

    - Municipal (Services over 25 People)
    - Private

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NPL Characteristics Data Collection Form
Wilcox Oil Company - 03/27/97

18. Surface Water Adjacent to/Draining Site:

- Stream
- Contaminated Stream

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HRS DOCUMENTATION RECORD
Wilcox Oil Company - 03/27/97

1. Site Name: Wilcox Oil Company
   (as entered in CERCLIS)

2. Site CERCLIS Number: OKD001010917

3. Site Reviewer: Diane G. Williams

4. Date: March 1997

5. Site Location: Bristow/Creek County, OK
   (City/County,State)

6. Congressional District:

7. Site Coordinates: Multiple

   Latitude: 35°50'31.0" Longitude: 096°23'02.0"

	Score
Ground Water Migration Pathway Score (Sgw)	16.13
Surface Water Migration Pathway Score (Ssw)	100.00
Soil Exposure Pathway Score (Ss)	10.67
Air Migration Pathway Score (Sa)	0.00

Site Score	50.93

NOTE

Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

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HRS DOCUMENTATION RECORD
Wilcox Oil Company - 03/27/97

PREScore 4.0
GROUND WATER MIGRATION PATHWAY SCORESHEET
Wilcox Oil Company - 03/27/97

5600879

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Barnsdall/Vamoosa-Ad		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	5
2d. Travel Time	35	25
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	330
3. Likelihood of Release	550	330
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+02
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	32
Targets		
7. Nearest Well	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	1.01E+02
8d. Population (lines 8a+8b+8c)	**	1.01E+02
9. Resources	5	5.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	1.26E+02
12. Targets (including overlaying aquifers)	**	1.26E+02
13. Aquifer Score	100	16.13
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	16.13

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

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PREScore 4.0
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Wilcox Oil Company - 03/27/97

5600880

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	550
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	3
2c. Distance to Surface Water	25	20
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	230
3. Potential to Release by Flood		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	25
3c. Potential to Release by Flood (lines 3a x 3b)	500	250
4. Potential to Release (lines 2d+3c)	500	480
5. Likelihood of Release	550	550
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	10000
8. Waste Characteristics	100	100
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	0.00E+00
12. Targets (lines 9+10d+11)	**	0.00E+00
13. DRINKING WATER THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

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PREScore 4.0
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Wilcox Oil Company - 03/27/97

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08
16. Hazardous Waste Quantity	*	10000
17. Waste Characteristics	1000	1000
Targets		
18. Food Chain Individual	50	4.50E+01
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	3.00E-02
19c. Pot. Human Food Chain Contamination	**	3.00E-05
19d. Population (lines 19a+19b+19c)	**	3.00E-02
20. Targets (lines 18+19d)	**	4.50E+01
21. HUMAN FOOD CHAIN THREAT SCORE	100	100.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREScore 4.0
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Wilcox Oil Company - 03/27/97

2800882

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+08
24. Hazardous Waste Quantity	*	10000
25. Waste Characteristics	1000	1000
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	3.00E+00
26d. Sensitive Environments (lines 26a+26b+26c)	**	3.00E+00
27. Targets (line 26d)	**	3.00E+00
28. ENVIRONMENTAL THREAT SCORE	60	20.00
29. WATERSHED SCORE	100	100.00
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	100.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

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PREScore 4.0
SOIL EXPOSURE PATHWAY SCORESHEET
Wilcox Oil Company - 03/27/97

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	100
4. Waste Characteristics	100	32
Targets		
5. Resident Individual	50	4.50E+01
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	5.00E+00
6c. Resident Population (lines 6a+6b)	**	5.00E+00
7. Workers	15	0.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	5.00E+01
11. RESIDENT POPULATION THREAT SCORE	**	8.80E+05

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

PREScore 4.0
SOIL EXPOSURE PATHWAY SCORESHEET
Wilcox Oil Company - 03/27/97

5600884

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	5.00E+00
13. Area of Contamination	100	6.00E+01
14. Likelihood of Exposure	500	5.00E+00
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	100	32
Targets		
18. Nearby Individual	1	0.00E+00
19. Population Within 1 Mile	**	2.00E+00
20. Targets (lines 18+19)	**	2.00E+00
21. NEARBY POPULATION THREAT SCORE	**	3.20E+02
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	10.67

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

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PREScore 4.0
AIR PATHWAY SCORESHEET
Wilcox Oil Company - 03/27/97

5600885

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	0
2b. Particulate Potential to Release	500	0
2c. Potential to Release	500	0
3. Likelihood of Release	550	0
Waste Characteristics		
4. Toxicity/Mobility	*	0.00E+00
5. Hazardous Waste Quantity	*	0
6. Waste Characteristics	100	0
Targets		
7. Nearest Individual	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	0.00E+00
10c. Sens. Environments(lines 10a+10b)	***	0.00E+00
11. Targets (lines 7+8d+9+10c)	**	0.00E+00
AIR MIGRATION PATHWAY SCORE (Sa)	100	0.00E+00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Pond 1

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

5600887

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		Pond 1	
b. Source Type		Surface Impoundment	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	25000.00
e. Source Volume/Area Value		1.92E+03	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		1.92E+03	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Pyrene	< 2	NO	2.3E+02	ppm
Toluene	< 2	NO	2.7E+02	ppm
Xylene, m-	< 2	NO	2.8E+02	ppm

Documentation for Source Type:

The source consists of a topographic depression designed to hold liquid and/or sludge wastes.

References: 24

Documentation for Source Hazardous Substances:

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

Two high concentration waste samples (WS-01 and WS-02) were collected from different locations within Pond 1 on 20 November 1996.

References: 24

Documentation for Source Area:

The area of Pond 1 was determined by measuring from an aerial photograph.

References: 6

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Pond 2

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		Pond 2	
b. Source Type		Surface Impoundment	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	100000.00
e. Source Volume/Area Value		7.69E+03	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		7.69E+03	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Aluminum	< 2	NO	2.2E+04	ppm
Antimony	< 2	NO	7.7E+00	ppm
Arsenic	< 2	NO	6.5E+00	ppm
Barium	< 2	NO	1.9E+02	ppm
Beryllium	< 2	NO	1.2E+00	ppm
Copper	< 2	NO	4.2E+01	ppm
Cyanide	< 2	NO	2.0E+00	ppm
Lead	< 2	NO	4.7E+04	ppm
Magnesium	< 2	NO	5.1E+03	ppm
Manganese	< 2	NO	7.0E+02	ppm
Silver	< 2	NO	2.0E+00	ppm
Vanadium	< 2	NO	3.8E+01	ppm
Zinc	< 2	NO	1.3E+02	ppm

Documentation for Source Type:

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

The source consists of a pond that was historically used to hold liquid wastes.

References: 6, 7

Documentation for Source Hazardous Substances:

One high concentration waste sample (WS-04) was collected from Pond 2 on 20 November 1996.

References: 24

Documentation for Source Area:

Source area was determined by measuring from aerial photos.

References: 6, 7

PREScore 4.0
WASTE QUANTITY
Wilcox Oil Company - 03/27/97

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Pit

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

5600893

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		Pit	
b. Source Type		Surface Impoundment	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	70686.00
e. Source Volume/Area Value		5.44E+03	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		5.44E+03	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Acetone	< 2	NO	2.2E+00	ppm
Arsenic	< 2	NO	8.7E+00	ppm
Copper	< 2	NO	1.0E+02	ppm
Lead	< 2	NO	3.7E+03	ppm
Mercury	< 2	NO	1.1E-01	ppm
Methylnaphthalene, 2-	< 2	NO	1.4E+04	ppm
Phenanthrene	< 2	NO	5.2E+02	ppm
Selenium	< 2	NO	8.4E-01	ppm
Silver	< 2	NO	6.7E-01	ppm
Xylene, m-	< 2	NO	4.5E-01	ppm

Documentation for Source Type:

The source type "surface impoundment" was selected for the Pit because it is a topographic depression that was designed to hold

liquid/sludge wastes.

References: 24

Documentation for Source Hazardous Substances:

Two high concentration waste samples (WS-05 and WS-06) were collected from the Pit on 20 November 1996. Waste sample WS-06 is a field duplicate of WS-05, and was collected for QA/QC purposes.

References: 24

Documentation for Source Area:

The source area was estimated by measuring the diameter from an aerial photograph and calculating the area by using the formula for determining the area of a circle.

References: 6, 7

PREScore 4.0
WASTE QUANTITY
Wilcox Oil Company - 03/27/97

5600895

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: (b) (6) Pond

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		(b) (6) Pond	
b. Source Type		Surface Impoundment	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	10000.00
e. Source Volume/Area Value		7.69E+02	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		7.69E+02	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Copper	< 2	NO	2.9E+00	ppm
Lead	< 2	NO	5.4E+01	ppm

Documentation for Source Type:

The source type "surface impoundment" was selected because it is a topographic depression that is designed to hold liquid/sludge wastes.

References: 24

Documentation for Source Hazardous Substances:

One sediment sample (SED-05) was collected from the (b) (6) Pond on 19 November 1996.

References: 24

Documentation for Source Area:

The area was estimated by measuring from an aerial photograph.

References: 6, 7

PREScore 4.0
WASTE QUANTITY
Wilcox Oil Company - 03/27/97

5600898

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Tank Bottom

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		Tank Bottom	
b. Source Type		Contaminated Soil	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	12272.00
e. Source Volume/Area Value		3.61E-01	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		3.61E-01	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Cyanide	< 2	NO	9.5E-01	ppm
Manganese	< 2	NO	9.4E+02	ppm
Selenium	< 2	NO	4.7E-01	ppm
Silver	< 2	NO	9.0E-01	ppm
Zinc	< 2	NO	1.6E+02	ppm

Documentation for Source Type:

The source consists of an area of soils contaminated with tank bottom material.

References: 24

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

Documentation for Source Hazardous Substances:

One high concentration waste sample (WS-08) was collected from the tank bottom area on 20 November 1996.

References: 24

Documentation for Source Area:

The source area was estimated by measuring the diameter of the source from an aerial photo and using the formula for calculating the area of a circle.

References: 6, 24

PREScore 4.0
WASTE QUANTITY
Wilcox Oil Company - 03/27/97

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Tank Bottom (b) (6) [redacted]

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

5600902

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		Tank Bottom (b) (6)	
b. Source Type		Contaminated Soil	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	12272.00
e. Source Volume/Area Value		3.61E-01	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		3.61E-01	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Pyrene	< 2	NO	5.4E+01	ppm

Documentation for Source Type:

The source consists of an area of soils contaminated with tank bottom material (waste source sample, WS-03).

References: 24

Documentation for Source Hazardous Substances:

Waste sample WS-03 was collected from the tank bottom area located adjacent to the (b) (6) residence on 20 November 1996.

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PREScore 4.0
WASTE QUANTITY
Wilcox Oil Company - 03/27/97

References: 24

Documentation for Source Area:

Source area was estimated by measuring from an aerial photograph.

References: 6

PREScore 4.0
WASTE QUANTITY
Wilcox Oil Company - 03/27/97

5600904

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Unvegetated Area

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

PREScore 4.0
WASTE QUANTITY
Wilcox Oil Company - 03/27/97

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		Unvegetated Area	
b. Source Type		Contaminated Soil	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	10000.00
e. Source Volume/Area Value		2.94E-01	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		2.94E-01	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Copper	< 2	NO	1.3E+02	ppm
Lead	< 2	NO	5.5E+04	ppm

Documentation for Source Type:

The source consists of an area of bare, unvegetated soils.

References: 24

Documentation for Source Hazardous Substances:

One soil sample (SS-06) was collected from the unvegetated area on 18 November 1996.

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Wilcox Oil Company - 03/27/97

References: 24

Documentation for Source Area:

The area was estimated by measuring from an aerial photograph.

References: 6, 24

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

5690907

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: (b) (6) Property

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		(b) (6) Property	
b. Source Type		Contaminated Soil	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	100.00
e. Source Volume/Area Value		2.94E-03	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		2.94E-03	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Benzo(g,h,i)perylene	< 2	NO	4.4E-01	ppm
Chrysene	< 2	NO	6.9E-01	ppm
Lead	< 2	NO	3.7E+02	ppm
Mercury	< 2	NO	1.8E-01	ppm
Phenanthrene	< 2	NO	7.9E-01	ppm
Pyrene	< 2	NO	5.6E-01	ppm
Zinc	< 2	NO	1.3E+02	ppm

Documentation for Source Type:

The source consists of contaminated soils documented by a soil sample in the (b) (6) yard.

References: 24

Documentation for Source Hazardous Substances:

Soil sample SS-05 was collected from the (b) (6) yard on 18 November 1996.

References: 24

Documentation for Source Area:

The source area is unknown and was conservatively estimated to be at least 100 square feet.

References: 24

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: (b) (6) Property

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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WASTE QUANTITY
Wilcox Oil Company - 03/27/97

5600911

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		[redacted] Property	
b. Source Type		Contaminated Soil	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	22500.00
e. Source Volume/Area Value		6.62E-01	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		6.62E-01	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Acetone	< 2	NO	4.8E-02	ppm

Documentation for Source Type:

The source consists of contaminated soils documented by a soil sample collected from the [redacted] yard.

References: 24

Documentation for Source Hazardous Substances:

Two soil samples (SS-07 and SS-08) were collected from the [redacted] yard on 19 November 1996. Soil sample SS-08 is a field duplicate of

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SS-07.

References: 24

Documentation for Source Area:

The source area was estimated from an aerial photograph.

References: 6, 24

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3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	Pond 1	GW-SW-SE	1.92E+03	0.00E+00	1.92E+03
2	Pond 2	GW-SW-SE	7.69E+03	0.00E+00	7.69E+03
3	Pit	GW-SW-SE	5.44E+03	0.00E+00	5.44E+03
4	(b) (6) Pond	GW-SW-SE	7.69E+02	0.00E+00	7.69E+02
5	Tank Bottom	GW-SW-SE	3.61E-01	0.00E+00	3.61E-01
6	Tank Bottom (b) (6)	GW-SW-SE	3.61E-01	0.00E+00	3.61E-01
7	Unvegetated Area	GW-SW-SE	2.94E-01	0.00E+00	2.94E-01
8	(b) (6) Property	GW-SW-SE	2.94E-03	0.00E+00	2.94E-03
9	(b) (6) Property	GW-SW-SE	6.62E-01	0.00E+00	6.62E-01

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WASTE QUANTITY
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4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+02	10000	32
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	10000	100
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	10000	1000
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	10000	1000
SW: GW to SW, DW	Tox./Persistence	1.00E+02	10000	32
SW: GW to SW, HFC	Tox./Persis./Bioacc.	1.00E+04	10000	100
SW: GW to SW, Env	Etox./Persis./Bioacc.	5.00E+04	10000	100
Soil Exposure:Resident	Toxicity	1.00E+04	100	32
Soil Exposure: Nearby	Toxicity	1.00E+04	100	32
Air	Toxicity/Mobility	0.00E+00	0	0

* Hazardous Waste Quantity Factor Values
** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

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GROUND WATER PATHWAY AQUIFER SUMMARY
Wilcox Oil Company - 03/27/97

5600915

No.	Aquifer ID	Type	Overlaying No.	Inter-Connected with	Likelihood of Release	Targets
1	Barnsdall/Vamoosa-Ad	Non K	0	0	330	1.26E+02

Containment

No.	Source ID	HWQ Value	Containment Value
1	Pond 1	1.92E+03	10
2	Pond 2	7.69E+03	10
3	Pit	5.44E+03	10
4	(b) (6) Pond	7.69E+02	10
5	Tank Bottom	3.61E-01	10
6	Tank Bottom (b) (6)	3.61E-01	10
7	Unvegetated Area	2.94E-01	10
8	(b) (6) Property	2.94E-03	10
9	(b) (6) Property	6.62E-01	10
	Containment Factor		10

Documentation for Ground Water Containment, Source Pond 1:

A groundwater containment factor of 10 was selected from HRS Table 3-2 because the source has no liner.

References: 24

Documentation for Ground Water Containment, Source Pond 2:

See documentation for Source 1.

References:

Documentation for Ground Water Containment, Source Pit:

PREScore 4.0
GROUND WATER PATHWAY AQUIFER SUMMARY
Wilcox Oil Company - 03/27/97

See documentation for Source 1.

References:

Documentation for Ground Water Containment, Source (b) (6) Pond:

See documentation for Source 1.

References:

Documentation for Ground Water Containment, Source Tank Bottom:

The source consists of an area of contaminated soil. No containment features (such as a liner) are present for the source, therefore a containment factor of 10 was assigned from HRS Table 3-2.

References: 24

Documentation for Ground Water Containment, Source Tank Bottom (b) (6):

See documentation for Source 5.

References:

Documentation for Ground Water Containment, Source Unvegetated Area:

See documentation for Source 5.

References:

Documentation for Ground Water Containment, Source (b) (6) Property:

See documentation for Source 5.

References:

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GROUND WATER PATHWAY AQUIFER SUMMARY
Wilcox Oil Company - 03/27/97

Documentation for Ground Water Containment, Source (b) (6) Property:

See documentation for source 5.

References:

Net Precipitation

Net Precipitation (inches)	8.90

Documentation for Net Precipitation:

The net precipitation was calculated using the Thornthwaite method.

References: 14

PREScore 4.0
GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Barnsdall/Vamoosa-Ada AQUIFER
Wilcox Oil Company - 03/27/97

Aquifer: Barnsdall/Vamoosa-Ada

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for Barnsdall/Vamoosa-Ada Aquifer:

For PREscore purposes, these aquifers will be grouped as one, and the Tallant is assumed to be absent.

References: 1, 13, 24

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination

- N/A and/or data not specified

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Observed Release Factor 0

PREScore 4.0
GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Barnsdall/Vamoosa-Ada AQUIFER
Wilcox Oil Company - 03/27/97

POTENTIAL TO RELEASE

Containment

Containment Factor	10

Net Precipitation

Net Precipitation Factor	3

Depth to Aquifer

A. Depth of Hazardous Substances	0.50	feet

Documentation for Depth of Hazardous Substances:

Based on samples collected from the on-site sources as part of the ESI field activities, the maximum depth of known contamination is 0.5 foot below ground surface. Because subsurface sampling was not conducted as part of the ESI, the actual depth of contamination is not known.

References: 24

B. Depth to Aquifer from Surface	25.00	feet

Documentation for Depth to Aquifer from Surface :

The depth to the shallowest water-bearing unit is reportedly less than 25 feet.

References: 1

C. Depth to Aquifer (B - A)	24.50	feet

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GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Barnsdall/Vamoosa-Ada AQUIFER
Wilcox Oil Company - 03/27/97

Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO	
Thickness of Layer(s) with Lowest Conductivity	25.00	feet

Documentation for Thickness of Layers with Lowest Conductivity:

There are no low conductivity layers between the aquifer and sources. Therefore, the thickness of lowest hydraulic conductivity layers is estimated to be the depth to groundwater (25 feet).

References: 24

Hydraulic Conductivity (cm/sec)	1.0E-05	

Documentation for Hydraulic Conductivity:

Hydraulic conductivity was estimated from HRS Table 3-6.

References: 24

Travel Time Factor	25

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Potential to Release Factor	330

PREScore 4.0
GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 1 Pond 1

Source Hazardous Waste Quantity Value: 1923.08

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Pyrene	100	2.00E-05	2.00E-03
Toluene	10	1.00E+00	1.00E+01
Xylene, m-	1	1.00E+00	1.00E+00

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GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 2 Pond 2

Source Hazardous Waste Quantity Value: 7692.31

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Aluminum	0	2.00E-09	0.00E+00
Antimony	10000	1.00E-02	1.00E+02
Arsenic	10000	1.00E-02	1.00E+02
Barium	10	1.00E-02	1.00E-01
Beryllium	10000	1.00E-02	1.00E+02
Copper	0	1.00E-02	0.00E+00
Cyanide	100	2.00E-05	2.00E-03
Lead	0	2.00E-05	0.00E+00
Magnesium	0	2.00E-05	0.00E+00
Manganese	10000	1.00E-02	1.00E+02
Silver	100	2.00E-05	2.00E-03
Vanadium	100	2.00E-07	2.00E-05
Zinc	10	2.00E-03	2.00E-02

PREScore 4.0
GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 3 Pit

Source Hazardous Waste Quantity Value: 5437.38

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Acetone	10	1.00E+00	1.00E+01
Arsenic	10000	1.00E-02	1.00E+02
Copper	0	1.00E-02	0.00E+00
Lead	0	2.00E-05	0.00E+00
Mercury	10000	2.00E-07	2.00E-03
Methylnaphthalene, 2-	0	2.00E-03	0.00E+00
Phenanthrene	0	2.00E-03	0.00E+00
Selenium	100	1.00E-02	1.00E+00
Silver	100	2.00E-05	2.00E-03
Xylene, m-	1	1.00E+00	1.00E+00

PREScore 4.0
GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 4 (b) (6) Pond

Source Hazardous Waste Quantity Value: 769.23

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Copper	0	1.00E-02	0.00E+00
Lead	0	2.00E-05	0.00E+00

PREScore 4.0
GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 5 Tank Bottom

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Cyanide	100	2.00E-05	2.00E-03
Manganese	10000	1.00E-02	1.00E+02
Selenium	100	1.00E-02	1.00E+00
Silver	100	2.00E-05	2.00E-03
Zinc	10	2.00E-03	2.00E-02

PREScore 4.0
GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 6 Tank Bottom (b) (6)

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Pyrene	100	2.00E-05	2.00E-03

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GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 7 Unvegetated Area

Source Hazardous Waste Quantity Value: 0.29

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Copper	0	1.00E-02	0.00E+00
Lead	0	2.00E-05	0.00E+00

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GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 8 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Benzo(g,h,i)perylene	0	2.00E-09	0.00E+00
Chrysene	10	2.00E-07	2.00E-06
Lead	0	2.00E-05	0.00E+00
Mercury	10000	2.00E-07	2.00E-03
Phenanthrene	0	2.00E-03	0.00E+00
Pyrene	100	2.00E-05	2.00E-03
Zinc	10	2.00E-03	2.00E-02

PREScore 4.0
GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 9 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.66

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Acetone	10	1.00E+00	1.00E+01

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GROUND WATER PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value

- N/A and/or data not specified

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GROUND WATER PATHWAY TARGETS FOR AQUIFER Barnsdall/Vamoosa-Ada
Wilcox Oil Company - 03/27/97

Toxicity/Mobility Value from Source Hazardous Substances:	1.00E+02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	1.00E+02
Sum of Source Hazardous Waste Quantity Values:	1.58E+04
Hazardous Waste Quantity Factor:	10000
Waste Characteristics Factor Category:	32

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GROUND WATER PATHWAY TARGETS FOR AQUIFER Barnsdall/Vamoosa-Ada
Wilcox Oil Company - 03/27/97

Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination	Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

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GROUND WATER PATHWAY TARGETS FOR AQUIFER Barnsdall/Vamoosa-Ada
Wilcox Oil Company - 03/27/97

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	3.0	4.00E-01
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	176.0	5.20E+00
> 1 to 2	4368.0	9.39E+01
> 2 to 3	54.0	7.00E-01
> 3 to 4	78.0	4.00E-01

Potential Contamination Factor: 101.000

Nearest Well

Level of Contamination: Potential
Distance in miles: 0.25

Nearest Well Factor: 2.00E+01

Documentation for Nearest Well:

The nearest identified well is a private well, located 0.25 mile north of the site.

References: 1

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Documentation for Resources:

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GROUND WATER PATHWAY TARGETS FOR AQUIFER Barnsdall/Vamoosa-Ada
Wilcox Oil Company - 03/27/97

Groundwater in the vicinity of the site is used for irrigation and livestock watering.

References: 1

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

Documentation for Wellhead Protection Area:

The site is not located in a well-head protection area.

References: 1

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SURFACE WATER PATHWAY SEGMENT SUMMARY
Wilcox Oil Company - 03/27/97

No.	Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)
1	Sand Creek	River	Fresh	0.00	3.50	50
2	Little Deep Fork	River	Fresh	3.50	15.00	400

Documentation for segment: Sand Creek:

Segment length was determined by measuring from a topographic map (Reference 2). Estimated average flow rate was estimated from hydrologic data for streams in the watershed (Reference 1).

References: 1, 2

Documentation for segment: Little Deep Fork:

See documentation for Sand Creek.

References:

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

OBSERVED RELEASE

No.	Sample ID	Sample Type	Distance (miles)	Level of Contamination DW	HFC	Env
1	SED-09	Sediment	0.000	Level II	Level II	Level II
2	SED-10	Sediment	0.600	Level II	Level II	Level II

Sample No.	Hazardous Substance	Concent.	Units
1	Copper	1.5E+03	ppb
2	Copper	1.9E+03	ppb

Observed Release Factor 550

Documentation for Observed Release, Sample SED-09:

Sediment sample SED-09 was collected at probable point of entry (PPE) 3 on 19 November 1996. Sample results indicate that copper was detected at greater than 3 times the maximum background concentration. This constituent was also detected in on-site sources at concentrations significantly above background levels.

References: 24

Documentation for Observed Release, Sample SED-10:

Sediment sample SED-10 was collected approximately 0.6 mile downstream of PPE-3 on 19 November 1996.

References: 24

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

No.	Source ID	HWQ Value	Containment Value
1	Pond 1	1.92E+03	10
2	Pond 2	7.69E+03	10
3	Pit	5.44E+03	10
4	(b) (6) Pond	7.69E+02	10
5	Tank Bottom	3.61E-01	10
6	Tank Bottom (b) (6)	3.61E-01	10
7	Unvegetated Area	2.94E-01	10
8	(b) (6) Property	2.94E-03	10
9	(b) (6) Property	6.62E-01	10

Containment Factor: 10

Documentation for Overland Flow Containment, Source Pond 1:

A containment factor of 10 was selected from HRS Table 4-2 because the source has free liquids (seeps) with no diking.

References: 24

Documentation for Overland Flow Containment, Source Pond 2:

See documentation for Source 1.

References:

Documentation for Overland Flow Containment, Source Pit:

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

See documentation for Source 1.

References:

Documentation for Overland Flow Containment, Source (b) (6) Pond:

See documentation for Source 1.

References:

Documentation for Overland Flow Containment, Source Tank Bottom:

A containment factor of 10 was selected from HRS Table 4-2 because the source does not have a maintained engineered cover nor a functioning and maintained run-on control system and runoff management system.

References: 24

Documentation for Overland Flow Containment, Source Tank Bottom (b) (6) :

See documentation for Source 5.

References:

Documentation for Overland Flow Containment, Source Unvegetated Area:

See documentation for source 5.

References: 24

Documentation for Overland Flow Containment, Source (b) (6) Property:

See documentation for Source 5.

References:

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
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Documentation for Overland Flow Containment, Source (b) (6) Property:

See documentation for Source 5.

References:

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Distance to Surface Water

Distance to Surface Water:	400.0 feet
Distance to Surface Water Factor:	20

Documentation for Distance to surface Water:

Distance to surface water was determined from a topographic map by measuring from the unvegetated area on the (b) (6) property to Sand Creek, via the intermittent creek.

References: 2, 24

Runoff

A. Drainage Area:	98.0 acres

Documentation for Drainage Area:

The drainage area is assumed to be equivalent to the area of the site.

References: 24

B. 2-year, 24-hour Rainfall:	4.2 inches

Documentation for Rainfall:

Rainfall was determined from the U.S. Department of Commerce, Rainfall Frequency Atlas.

References: 18

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

C. Soil Group: C
Moderately-fine textured soils with low infiltration rates

Documentation for Soil Group:

Based on the Creek County Soil Survey, the majority of the site soils are classified as the Stephensville and Darnell fine sandy loams.

References: 22

Runoff Factor: 3

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Potential to Release by Overland Flow Factor: 230

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Potential to Release by Flood

No.	Source ID	HWQ Value	Flood Containment Value	Flood Frequency Value	Potential to Release by Flood
4	(b) (6) Pond	7.69E+02	10	25	250
6	Tank Bottom (b) (6)	3.61E-01	10	25	250
7	Unvegetated Area	2.94E-01	10	25	250
9	(b) (6) Property	6.62E-01	10	25	250

==========

Potential to Release by Flood Factor: 250

Documentation for Flood Containment, Source Pond 1:

Sources at the site have no flood containment features.

References: 24

Documentation for Flood Frequency, Source Pond 1:

According to flood hazard maps obtained from FEMA, the source occurs outside the flood hazard zone.

References: 17

Documentation for Flood Containment, Source Pond 2:

See documentation for Source 1.

References:

PREScore 4.0
SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Documentation for Flood Frequency, Source Pond 2:

Based on FEMA maps, the source occurs outside the flood hazard zone.

References: 17

Documentation for Flood Containment, Source Pit:

See documentation for Source 1.

References:

Documentation for Flood Frequency, Source Pit:

Based on FEMA maps, the source occurs outside the flood hazard zone.

References: 17

Documentation for Flood Containment, Source (b) (6) Pond:

See documentation for Source 1.

References:

Documentation for Flood Frequency, Source (b) (6) Pond:

Based on FEMA maps, the source occurs within a flood hazard zone.

References: 17

Documentation for Flood Containment, Source Tank Bottom:

No flood containment features are present for the source.

References: 24

Documentation for Flood Frequency, Source Tank Bottom:

The source occurs outside the flood hazard area, according to FEMA maps.

References: 17

Documentation for Flood Containment, Source Tank Bottom (b) (6)

No flood containment features are present for the source.

References: 24

Documentation for Flood Frequency, Source Tank Bottom (b) (6):

Based on FEMA and topographic maps, it appears the source is located within a flood hazard area.

References: 2, 24

Documentation for Flood Containment, Source Unvegetated Area:

No flood containment features are present for the source.

References: 24

Documentation for Flood Frequency, Source Unvegetated Area:

Based FEMA and topographic maps, the source appears to be in a flood hazard zone.

References: 2, 17

PREScore 4.0
SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Documentation for Flood Containment, Source (b) (6) Property:

The source consists of contaminated soils in a residential yard; no flood containment features are present for the source.

References: 24

Documentation for Flood Frequency, Source (b) (6) Property:

Based on FEMA maps, the source occurs outside the flood hazard zone.

References: 17

Documentation for Flood Containment, Source (b) (6) Property:

The source consists of contaminated soils in the (b) (6) yard; no flood containment features exist for the source.

References: 24

Documentation for Flood Frequency, Source (b) (6) Property:

Based on FEMA maps, the source occurs in a flood hazard area.

References: 17

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 1 Pond 1

Source Hazardous Waste Quantity Value: 1923.08

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Pyrene	100	1.00E+00	1.00E+02
Toluene	10	4.00E-01	4.00E+00
Xylene, m-	1	4.00E-01	4.00E-01

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 2 Pond 2

Source Hazardous Waste Quantity Value: 7692.31

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Aluminum	0	1.00E+00	0.00E+00
Antimony	10000	1.00E+00	1.00E+04
Arsenic	10000	1.00E+00	1.00E+04
Barium	10	1.00E+00	1.00E+01
Beryllium	10000	1.00E+00	1.00E+04
Copper	0	1.00E+00	0.00E+00
Cyanide	100	4.00E-01	4.00E+01
Lead	0	1.00E+00	0.00E+00
Magnesium	0	1.00E+00	0.00E+00
Manganese	10000	1.00E+00	1.00E+04
Silver	100	1.00E+00	1.00E+02
Vanadium	100	1.00E+00	1.00E+02
Zinc	10	1.00E+00	1.00E+01

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 3 Pit

Source Hazardous Waste Quantity Value: 5437.38

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Acetone	10	4.00E-01	4.00E+00
Arsenic	10000	1.00E+00	1.00E+04
Copper	0	1.00E+00	0.00E+00
Lead	0	1.00E+00	0.00E+00
Mercury	10000	1.00E+00	1.00E+04
Methylnaphthalene, 2-	0	4.00E-01	0.00E+00
Phenanthrene	0	1.00E+00	0.00E+00
Selenium	100	1.00E+00	1.00E+02
Silver	100	1.00E+00	1.00E+02
Xylene, m-	1	4.00E-01	4.00E-01

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 4 (b) (6) Pond

Source Hazardous Waste Quantity Value: 769.23

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Copper	100	1.00E+00	1.00E+02
Lead	100	1.00E+00	1.00E+02

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 5 Tank Bottom

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Cyanide	100	4.00E-01	4.00E+01
Manganese	10000	1.00E+00	1.00E+04
Selenium	100	1.00E+00	1.00E+02
Silver	100	1.00E+00	1.00E+02
Zinc	10	1.00E+00	1.00E+01

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 6 Tank Bottom (b) (6)

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Pyrene	100	1.00E+00	1.00E+02

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 7 Unvegetated Area

Source Hazardous Waste Quantity Value: 0.29

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Copper	100	1.00E+00	1.00E+02
Lead	100	1.00E+00	1.00E+02

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 8 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Benzo(g,h,i)perylene	0	1.00E+00	0.00E+00
Chrysene	10	1.00E+00	1.00E+01
Lead	0	1.00E+00	0.00E+00
Mercury	10000	1.00E+00	1.00E+04
Phenanthrene	0	1.00E+00	0.00E+00
Pyrene	100	1.00E+00	1.00E+02
Zinc	10	1.00E+00	1.00E+01

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 9 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.66

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Acetone	10	4.00E-01	4.00E+00

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
1	Copper	100	1.00E+00	1.00E+02
2	Copper	100	1.00E+00	1.00E+02

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Wilcox Oil Company - 03/27/97

5600956

Toxicity/Persistence Value from Source Hazardous Substances:	1.00E+04
Toxicity/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	1.58E+04
Hazardous Waste Quantity Factor:	10000
Waste Characteristics Factor Category:	100

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Wilcox Oil Company - 03/27/97

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

Sample ID: SED-09
Sample Medium: Sediment
Location: 0.00 miles

Hazardous Substance	Hazardous Substance Concentration	DW MCL Benchmark Concentration	Units
Copper	1.5E+03	N.A.	ppb

Documentation for SED-09:

Sediment sample SED-09 was collected at probable point of entry (PPE) 3 on 19 November 1996. Sample results indicate that copper was detected at greater than 3 times the maximum background concentration. This constituent was also detected in on-site sources at concentrations significantly above background levels.

References: 24

Sample ID: SED-10
Sample Medium: Sediment
Location: 0.60 miles

Hazardous Substance	Hazardous Substance Concentration	DW MCL Benchmark Concentration	Units
Copper	1.9E+03	N.A.	ppb

Documentation for SED-10:

Sediment sample SED-10 was collected approximately 0.6 mile downstream of PPE-3 on 19 November 1996.

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Wilcox Oil Company - 03/27/97

References: 24

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

Sample ID: SED-10
Distance from the Probable Point of Entry: 0.60 miles

Documentation for SED-10:

Sediment sample SED-10 was collected approximately 0.6 mile downstream of PPE-3 on 19 November 1996.

References: 24

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Wilcox Oil Company - 03/27/97

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Wilcox Oil Company - 03/27/97

5600960

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Wilcox Oil Company - 03/27/97

5600961

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
- N/A and/or data not specified		

Type of Surface Water Body	Total Population	Dilution-Weighted Population
- N/A and/or data not specified		

Dilution-Weighted Population Served by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: NO

Resource Value: 0.00E+00

Documentation for Resources:

No resources identified.

References:

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 1 Pond 1

Source Hazardous Waste Quantity Value: 1923.08

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Pyrene	100	1.00E+00	5.00E+01	5.00E+03
Toluene	10	4.00E-01	5.00E+01	2.00E+02
Xylene, m-	1	4.00E-01	5.00E+02	2.00E+02

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 2 Pond 2

Source Hazardous Waste Quantity Value: 7692.31

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Aluminum	0	1.00E+00	5.00E+01	0.00E+00
Antimony	10000	1.00E+00	5.00E-01	5.00E+03
Arsenic	10000	1.00E+00	5.00E+00	5.00E+04
Barium	10	1.00E+00	5.00E-01	5.00E+00
Beryllium	10000	1.00E+00	5.00E+01	5.00E+05
Copper	0	1.00E+00	5.00E+04	0.00E+00
Cyanide	100	4.00E-01	5.00E-01	2.00E+01
Lead	0	1.00E+00	5.00E+01	0.00E+00
Magnesium	0	1.00E+00	5.00E-01	0.00E+00
Manganese	10000	1.00E+00	5.00E-01	5.00E+03
Silver	100	1.00E+00	5.00E+01	5.00E+03
Vanadium	100	1.00E+00	5.00E-01	5.00E+01
Zinc	10	1.00E+00	5.00E+02	5.00E+03

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 3 Pit

Source Hazardous Waste Quantity Value: 5437.38

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Acetone	10	4.00E-01	5.00E-01	2.00E+00
Arsenic	10000	1.00E+00	5.00E+00	5.00E+04
Copper	0	1.00E+00	5.00E+04	0.00E+00
Lead	0	1.00E+00	5.00E+01	0.00E+00
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Methylnaphthalene, 2-	0	4.00E-01	5.00E+03	0.00E+00
Phenanthrene	0	1.00E+00	5.00E+01	0.00E+00
Selenium	100	1.00E+00	5.00E+03	5.00E+05
Silver	100	1.00E+00	5.00E+01	5.00E+03
Xylene, m-	1	4.00E-01	5.00E+02	2.00E+02

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 4 (b) (6) Pond

Source Hazardous Waste Quantity Value: 769.23

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Copper	100	1.00E+00	5.00E+04	5.00E+06
Lead	100	1.00E+00	5.00E+01	5.00E+03

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 5 Tank Bottom

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Cyanide	100	4.00E-01	5.00E-01	2.00E+01
Manganese	10000	1.00E+00	5.00E-01	5.00E+03
Selenium	100	1.00E+00	5.00E+03	5.00E+05
Silver	100	1.00E+00	5.00E+01	5.00E+03
Zinc	10	1.00E+00	5.00E+02	5.00E+03

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 6 Tank Bottom (b) (6)

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Pyrene	100	1.00E+00	5.00E+01	5.00E+03

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 7 Unvegetated Area

Source Hazardous Waste Quantity Value: 0.29

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Copper	100	1.00E+00	5.00E+04	5.00E+06
Lead	100	1.00E+00	5.00E+01	5.00E+03

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 8 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Benzo(g,h,i)perylene	0	1.00E+00	5.00E+04	0.00E+00
Chrysene	10	1.00E+00	5.00E+02	5.00E+03
Lead	0	1.00E+00	5.00E+01	0.00E+00
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Phenanthrene	0	1.00E+00	5.00E+01	0.00E+00
Pyrene	100	1.00E+00	5.00E+01	5.00E+03
Zinc	10	1.00E+00	5.00E+02	5.00E+03

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 9 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.66

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Acetone	10	4.00E-01	5.00E-01	2.00E+00

PREScore 4.0
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
1	Copper	100	1.00E+00	5.00E+04	5.00E+06
2	Copper	100	1.00E+00	5.00E+04	5.00E+06

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Wilcox Oil Company - 03/27/97

Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+08
Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	1.58E+04
Hazardous Waste Quantity Factor:	10000
Waste Characteristics Factor Category:	1000

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Wilcox Oil Company - 03/27/97

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

Sample ID: SED-09
Sample Medium: Sediment
Location: 0.00 miles

Hazardous Substance	Hazardous Substance Concentration	FDAAL Benchmark Concentration	Units
Copper	1.5E+03	N.A.	ppb

Documentation for SED-09:

Sediment sample SED-09 was collected at probable point of entry (PPE) 3 on 19 November 1996. Sample results indicate that copper was detected at greater than 3 times the maximum background concentration. This constituent was also detected in on-site sources at concentrations significantly above background levels.

References: 24

Sample ID: SED-10
Sample Medium: Sediment
Location: 0.60 miles

Hazardous Substance	Hazardous Substance Concentration	FDAAL Benchmark Concentration	Units
Copper	1.9E+03	N.A.	ppb

Documentation for SED-10:

Sediment sample SED-10 was collected approximately 0.6 mile downstream of PPE-3 on 19 November 1996.

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Wilcox Oil Company - 03/27/97

References: 24

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

Sample ID: SED-10
Distance from the Probable Point of Entry: 0.60 miles

Documentation for SED-10:

Sediment sample SED-10 was collected approximately 0.6 mile downstream of PPE-3 on 19 November 1996.

References: 24

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Wilcox Oil Company - 03/27/97

Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Wilcox Oil Company - 03/27/97

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
1 Sand Creek	1.0	3.00E-02

Sum of Human Food Chain Population Values: 3.00E-02

Level II Concentrations Factor: 3.00E-02

Documentation for Sand Creek Fishery:

According to a representive with the Oklahoma Fish and Wildlife, limited fishing occurs from private lands in Sand Creek. The quantity of fish harvested is not known and is conservatively estimated to be at least one pound of fish per year.

References: 21, 24

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Wilcox Oil Company - 03/27/97

5609977

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
2 Little Deep Fork	1.0	River	400	0.0	1.00E-02	3.00E-04

Sum of (Pi*Di): 3.00E-04

Potential Human Food Chain Contamination Factor: 3.00E-05

Documentation for Little Deep Fork Fishery:

According to a representative with Oklahoma Fish and Wildlife, limited fishing from private lands occurs in the Little Deep Fork River. The quantity harvested is not known and is conservatively estimated to be at least 1 pound of fish per year.

References: 21, 24

Food Chain Individual

Location of Nearest Fishery: Sand Creek
Distance from the Probable Point of Entry: 0.00 miles
Type of Surface Water Body: River
Dilution Weight: 0.1000000
Level of Contamination: Level II

Food Chain Individual Factor: 45.00

Documentation for Sand Creek:

Segment length was determined by measuring from a topographic map (Reference 2). Estimated average flow rate was estimated from hydrologic data for streams in the watershed (Reference 1).

References: 1, 2

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 1 Pond 1

Source Hazardous Waste Quantity Value: 1923.08

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Pyrene	10000	1.00E+00	5.00E+01	5.00E+05
Toluene	100	4.00E-01	5.00E+01	2.00E+03
Xylene, m-	100	4.00E-01	5.00E+02	2.00E+04

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 2 Pond 2

Source Hazardous Waste Quantity Value: 7692.31

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Aluminum	100	1.00E+00	5.00E+01	5.00E+03
Antimony	100	1.00E+00	5.00E+00	5.00E+02
Arsenic	100	1.00E+00	5.00E+02	5.00E+04
Barium	1	1.00E+00	5.00E-01	5.00E-01
Beryllium	0	1.00E+00	5.00E+01	0.00E+00
Copper	100	1.00E+00	5.00E+04	5.00E+06
Cyanide	1000	4.00E-01	5.00E-01	2.00E+02
Lead	1000	1.00E+00	5.00E+03	5.00E+06
Magnesium	0	1.00E+00	5.00E-01	0.00E+00
Manganese	0	1.00E+00	5.00E+04	0.00E+00
Silver	1000	1.00E+00	5.00E+01	5.00E+04
Vanadium	0	1.00E+00	5.00E-01	0.00E+00
Zinc	10	1.00E+00	5.00E+02	5.00E+03

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 3 Pit

Source Hazardous Waste Quantity Value: 5437.38

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Acetone	100	4.00E-01	5.00E-01	2.00E+01
Arsenic	100	1.00E+00	5.00E+02	5.00E+04
Copper	100	1.00E+00	5.00E+04	5.00E+06
Lead	1000	1.00E+00	5.00E+03	5.00E+06
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Methylnaphthalene, 2-	1000	4.00E-01	5.00E+03	2.00E+06
Phenanthrene	10000	1.00E+00	5.00E+03	5.00E+07
Selenium	1000	1.00E+00	5.00E+03	5.00E+06
Silver	1000	1.00E+00	5.00E+01	5.00E+04
Xylene, m-	100	4.00E-01	5.00E+02	2.00E+04

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 4 (b) (6) Pond

Source Hazardous Waste Quantity Value: 769.23

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Copper	100	1.00E+00	5.00E+04	5.00E+06
Lead	1000	1.00E+00	5.00E+03	5.00E+06

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 5 Tank Bottom

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Cyanide	1000	4.00E-01	5.00E-01	2.00E+02
Manganese	0	1.00E+00	5.00E+04	0.00E+00
Selenium	1000	1.00E+00	5.00E+03	5.00E+06
Silver	1000	1.00E+00	5.00E+01	5.00E+04
Zinc	10	1.00E+00	5.00E+02	5.00E+03

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 6 Tank Bottom (b) (6)

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Pyrene	10000	1.00E+00	5.00E+01	5.00E+05

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PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 7 Unvegetated Area

Source Hazardous Waste Quantity Value: 0.29

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Copper	100	1.00E+00	5.00E+04	5.00E+06
Lead	1000	1.00E+00	5.00E+03	5.00E+06

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 8 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Benzo(g,h,i)perylene	0	1.00E+00	5.00E+04	0.00E+00
Chrysene	1000	1.00E+00	5.00E+03	5.00E+06
Lead	1000	1.00E+00	5.00E+03	5.00E+06
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Phenanthrene	10000	1.00E+00	5.00E+03	5.00E+07
Pyrene	10000	1.00E+00	5.00E+01	5.00E+05
Zinc	10	1.00E+00	5.00E+02	5.00E+03

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 9 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.66

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Acetone	100	4.00E-01	5.00E-01	2.00E+01

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
1	Copper	100	1.00E+00	5.00E+04	5.00E+06
2	Copper	100	1.00E+00	5.00E+04	5.00E+06

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Wilcox Oil Company - 03/27/97

Ecotoxicity/Persistence/Bioaccummulation Value from Source Hazardous Substances:	5.00E+08
Ecotoxicity/Persistence/Bioaccummulation Value from Observed Release Hazardous Substances:	5.00E+06
Ecotoxicity/Persistence/Bioaccummulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	1.58E+04
Hazardous Waste Quantity Factor:	10000
Waste Characteristics Factor Category:	1000

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Wilcox Oil Company - 03/27/97

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

Sample ID: SED-09
Sample Medium: Sediment
Location: 0.00 miles

Hazardous Substance	Hazardous Substance Concentration	AWQC Benchmarks Concentrations FRESH	SALT	Units
Copper	1.5E+03		N.A.	ppb

Documentation for SED-09:

Sediment sample SED-09 was collected at probable point of entry (PPE) 3 on 19 November 1996. Sample results indicate that copper was detected at greater than 3 times the maximum background concentration. This constituent was also detected in on-site sources at concentrations significantly above background levels.

References: 24

Sample ID: SED-10
Sample Medium: Sediment
Location: 0.60 miles

Hazardous Substance	Hazardous Substance Concentration	AWQC Benchmarks Concentrations FRESH	SALT	Units
Copper	1.9E+03		N.A.	ppb

Documentation for SED-10:

Sediment sample SED-10 was collected approximately 0.6 mile downstream of PPE-3 on 19 November 1996.

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Wilcox Oil Company - 03/27/97

References: 24

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

Sample ID: SED-10
Distance from the Probable Point of Entry: 0.60 miles

Documentation for SED-10:

Sediment sample SED-10 was collected approximately 0.6 mile downstream of PPE-3 on 19 November 1996.

References: 24

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Wilcox Oil Company - 03/27/97

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		
Sum of Sensitive Environments Values:		0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		
Total Wetlands Frontage:	0.00 Miles	Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Wilcox Oil Company - 03/27/97

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		
Sum of Sensitive Environments Values:		0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		
Total Wetlands Frontage:	0.00 Miles	Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Wilcox Oil Company - 03/27/97

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value
River	1 Wetlands	8.75	250

PREScore 4.0
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Wilcox Oil Company - 03/27/97

5600995

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)
Small to Moderate Stream	0	250	1.00E-01	2.50E+01

Sum of Dj(Wj+Sj): 2.50E+01
Sum of Dj(Wj+Sj)/10: 2.50E+00

==========

Potential Contamination Sensitive Environment Factor: 3.00E+00

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE
Wilcox Oil Company - 03/27/97

Likelihood of Exposure

No.	Source ID	Level of Contamination
1	Pond 1	Level II
2	Pond 2	Level I
3	Pit	Level I
4	(b) (6) Pond	Level II
5	Tank Bottom	Level II
6	Tank Bottom (b) (6)	Level II
7	Unvegetated Area	Level II
8	(b) (6) Property	Level II
9	(b) (6) Property	Level II

Likelihood of Exposure Factor: 550

Documentation for Area of Contamination, Source Pond 1:

According to HRS guidance, if observed contamination is detected in a source (with the exception of contaminated soil), the entire source area should be used. The source size was estimated from an aerial photo.

References: 6, 24

Documentation for Area of Contamination, Source Pond 2:

See documentation for Source 1.

References:

Documentation for Area of Contamination, Source Pit:

See documentation for Source 1.

References:

Documentation for Area of Contamination, Source (b) (6) Pond:

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE
Wilcox Oil Company - 03/27/97

See documentation for Source 1.

References:

Documentation for Area of Contamination, Source Tank Bottom:

See documentation for Source 1.

References:

Documentation for Area of Contamination, Source Tank Bottom [redacted]

See documentation for Source 1.

References:

Documentation for Area of Contamination, Source Unvegetated Area:

See documentation for Source 1.

References:

Documentation for Area of Contamination, Source [redacted] Property:

The area of contaminated soils cannot adequately be determined by one sample; therefore, the area is conservatively estimated to be at least 100 square feet.

References: 24

Documentation for Area of Contamination, Source [redacted] Property:

See documentation for Source 1.

References:

Source	Hazardous Substance	Depth	Concent.	Cancer	RFD	Units

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE
Wilcox Oil Company - 03/27/97

5600998

No.		(ft.)				
1	Pyrene	< 2	2.3E+02	0.0E+00	1.7E+04	ppm
1	Toluene	< 2	2.7E+02	0.0E+00	1.2E+05	ppm
1	Xylene, m-	< 2	2.8E+02	0.0E+00	1.2E+06	ppm
2	Aluminum	< 2	2.2E+04	0.0E+00	0.0E+00	ppm
2	Antimony	< 2	7.7E+00	0.0E+00	2.3E+02	ppm
2	Arsenic	< 2	6.5E+00	3.3E-01	1.7E+02	ppm
2	Barium	< 2	1.9E+02	0.0E+00	4.1E+04	ppm
2	Beryllium	< 2	1.2E+00	1.4E-01	2.9E+03	ppm
2	Copper	< 2	4.2E+01	0.0E+00	0.0E+00	ppm
2	Cyanide	< 2	2.0E+00	0.0E+00	1.2E+04	ppm
2	Lead	< 2	4.7E+04	0.0E+00	0.0E+00	ppm
2	Magnesium	< 2	5.1E+03	0.0E+00	0.0E+00	ppm
2	Manganese	< 2	7.0E+02	0.0E+00	2.9E+03	ppm
2	Silver	< 2	2.0E+00	0.0E+00	2.9E+03	ppm
2	Vanadium	< 2	3.8E+01	0.0E+00	4.1E+03	ppm
2	Zinc	< 2	1.3E+02	0.0E+00	1.7E+05	ppm
3	Acetone	< 2	2.2E+00	0.0E+00	5.8E+04	ppm
3	Arsenic	< 2	8.7E+00	3.3E-01	1.7E+02	ppm
3	Copper	< 2	1.0E+02	0.0E+00	0.0E+00	ppm
3	Lead	< 2	3.7E+03	0.0E+00	0.0E+00	ppm
3	Mercury	< 2	1.1E-01	0.0E+00	1.7E+02	ppm
3	Methylnaphthalene, 2-	< 2	1.4E+04	0.0E+00	0.0E+00	ppm
3	Phenanthrene	< 2	5.2E+02	0.0E+00	0.0E+00	ppm
3	Selenium	< 2	8.4E-01	0.0E+00	2.9E+03	ppm
3	Silver	< 2	6.7E-01	0.0E+00	2.9E+03	ppm
3	Xylene, m-	< 2	4.5E-01	0.0E+00	1.2E+06	ppm
4	Copper	< 2	2.9E+00	0.0E+00	0.0E+00	ppm
4	Lead	< 2	5.4E+01	0.0E+00	0.0E+00	ppm
5	Cyanide	< 2	9.5E-01	0.0E+00	1.2E+04	ppm
5	Manganese	< 2	9.4E+02	0.0E+00	2.9E+03	ppm
5	Selenium	< 2	4.7E-01	0.0E+00	2.9E+03	ppm
5	Silver	< 2	9.0E-01	0.0E+00	2.9E+03	ppm
5	Zinc	< 2	1.6E+02	0.0E+00	1.7E+05	ppm
6	Pyrene	< 2	5.4E+01	0.0E+00	1.7E+04	ppm
7	Copper	< 2	1.3E+02	0.0E+00	0.0E+00	ppm
7	Lead	< 2	5.5E+04	0.0E+00	0.0E+00	ppm
8	Benzo(g,h,i)perylene	< 2	4.4E-01	0.0E+00	0.0E+00	ppm
8	Chrysene	< 2	6.9E-01	0.0E+00	0.0E+00	ppm
8	Lead	< 2	3.7E+02	0.0E+00	0.0E+00	ppm
8	Mercury	< 2	1.8E-01	0.0E+00	1.7E+02	ppm
8	Phenanthrene	< 2	7.9E-01	0.0E+00	0.0E+00	ppm
8	Pyrene	< 2	5.6E-01	0.0E+00	1.7E+04	ppm
8	Zinc	< 2	1.3E+02	0.0E+00	1.7E+05	ppm
9	Acetone	< 2	4.8E-02	0.0E+00	5.8E+04	ppm

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE
Wilcox Oil Company - 03/27/97

Documentation for Source Pond 1, Contaminants:

Two high concentration waste samples (WS-01 and WS-02) were collected from different locations within Pond 1 on 20 November 1996.

References: 24

Documentation for Source Pond 2, Contaminants:

One high concentration waste sample (WS-04) was collected from Pond 2 on 20 November 1996.

References: 24

Documentation for Source Pit, Contaminants:

Two high concentration waste samples (WS-05 and WS-06) were collected from the Pit on 20 November 1996. Waste sample WS-06 is a field duplicate of WS-05, and was collected for QA/QC purposes.

References: 24

Documentation for Source (b) (6) Pond, Contaminants:

One sediment sample (SED-05) was collected from the (b) (6) Pond on 19 November 1996.

References: 24

Documentation for Source Tank Bottom, Contaminants:

One high concentration waste sample (WS-08) was collected from the tank bottom area on 20 November 1996.

References: 24

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE
Wilcox Oil Company - 03/27/97

Documentation for Source Tank Bottom (b) (6) Contaminants:

Waste sample WS-03 was collected from the tank bottom area located adjacent to the (b) (6) residence on 20 November 1996.

References: 24

Documentation for Source Unvegetated Area, Contaminants:

One soil sample (SS-06) was collected from the unvegetated area on 18 November 1996.

References: 24

Documentation for Source (b) (6) Property, Contaminants:

Soil sample SS-05 was collected from the (b) (6) yard on 18 November 1996.

References: 24

Documentation for Source (b) (6) Property, Contaminants:

Two soil samples (SS-07 and SS-08) were collected from the (b) (6) yard on 19 November 1996. Soil sample SS-08 is a field duplicate of SS-07.

References: 24

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 1 Pond 1

Source Hazardous Waste Quantity Value: 1923.08

Hazardous Substance	Toxicity Value
Pyrene	100
Toluene	10
Xylene, m-	1

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 2 Pond 2

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Aluminum	0
Antimony	10000
Arsenic	10000
Barium	10
Beryllium	10000
Copper	0
Cyanide	100
Lead	0
Magnesium	0
Manganese	10000
Silver	100
Vanadium	100
Zinc	10

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 3 Pit

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Acetone	10
Arsenic	10000
Copper	0
Lead	0
Mercury	10000
Methylnaphthalene, 2-	0
Phenanthrene	0
Selenium	100
Silver	100
Xylene, m-	1

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 4 (b) (6) Pond

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Copper	0
Lead	0

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SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 5 Tank Bottom

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value
Cyanide	100
Manganese	10000
Selenium	100
Silver	100
Zinc	10

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 6 Tank Bottom (b) (6)

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value
Pyrene	100

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SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 7 Unvegetated Area

Source Hazardous Waste Quantity Value: 0.29

Hazardous Substance	Toxicity Value
Copper	0
Lead	0

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 8 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Benzo(g,h,i)perylene	0
Chrysene	10
Lead	0
Mercury	10000
Phenanthrene	0
Pyrene	100
Zinc	10

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 9 (b) (6) [redacted] Property

Source Hazardous Waste Quantity Value: 0.66

Hazardous Substance	Toxicity Value
Acetone	10

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SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	1.92E+03
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS
Wilcox Oil Company - 03/27/97

Targets

Level I Population: 0.0 Value: 0.00

Documentation for Level I Population:

No Level I residential population was established.

References:

Level II Population: 5.0 Value: 5.00

Documentation for Level II Population:

A total of 5 resident individuals were identified based on sampling results of samples collected within two yards (the (b) (6) and (b) (6) yards). All samples were collected within 200 feet of the residence (Reference 24). Two people live in the (b) (6) residence (Reference 9) and three people live in the (b) (6) residence (Reference 3).

References: 3, 9, 24

Workers: 0.0 Value: 0.00

Documentation for Workers:

No workplaces are located at the Wilcox site or within 200 feet of observed contamination.

References: 1

Resident Individual: Level II Value: 45.00

Resources: NO Value: 0.00

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PREScore 4.0
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS
Wilcox Oil Company - 03/27/97

Documentation for Resources:

No resources identified.

References: 1

Terrestial Sensitive Environment	Value
- N/A and/or data not specified	

Terrestrial Sensitive Environments Factor: 0.00

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
Wilcox Oil Company - 03/27/97

Likelihood of Exposure

No.	Source ID	Level of Contamination	Attractiveness/ Accessibility	Area of Contam. (sq. feet)
1	Pond 1	Level II	5	25000
2	Pond 2	Level I	5	100000
3	Pit	Level I	5	70686
4	(b) (6) Pond	Level II	5	10000
5	Tank Bottom	Level II	5	12272
6	Tank Bottom (b) (6)	Level II	5	12272
7	Unvegetated Area	Level II	5	10000
8	(b) (6) Property	Level II	5	100
9	(b) (6) Property	Level II	5	22500

Highest Attractiveness/Accessibility Value: 5
Sum of Eligible Areas Of Contamination (sq. feet): 262830
Area of Contamination Value: 60

Likelihood of Exposure Factor Category: 5

Documentation for Attractiveness/Accessibility, Source Pond 1:

The site (and therefore the sources) is surrounded by fences that correspond to property divisions.

References: 24

Documentation for Attractiveness/Accessibility, Source Pond 2:

See documentation for Source 1.

References:

Documentation for Attractiveness/Accessibility, Source Pit:

See documentation for Source 1.

References:

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
Wilcox Oil Company - 03/27/97

Documentation for Attractiveness/Accessibility, Source (b) (6) Pond:

See documentation for Source 1.

References:

Documentation for Attractiveness/Accessibility, Source Tank Bottom:

The source occurs on fenced, private land that is currently not being used.

References: 24

Documentation for Attractiveness/Accessibility, Source Tank Bottom (b) (6):

The source occurs on private, fenced property.

References: 24

Documentation for Attractiveness/Accessibility, Source Unvegetated Area:

The source occurs on private, fenced property.

References: 24

Documentation for Attractiveness/Accessibility, Source (b) (6) Property:

The source occurs on fenced, private property.

References: 24

Documentation for Attractiveness/Accessibility, Source (b) (6) Property:

The source occurs in a private, fenced yard.

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
Wilcox Oil Company - 03/27/97

References: 24

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Pyrene	< 2	2.3E+02	0.0E+00	1.7E+04	ppm
1	Toluene	< 2	2.7E+02	0.0E+00	1.2E+05	ppm
1	Xylene, m-	< 2	2.8E+02	0.0E+00	1.2E+06	ppm
2	Aluminum	< 2	2.2E+04	0.0E+00	0.0E+00	ppm
2	Antimony	< 2	7.7E+00	0.0E+00	2.3E+02	ppm
2	Arsenic	< 2	6.5E+00	3.3E-01	1.7E+02	ppm
2	Barium	< 2	1.9E+02	0.0E+00	4.1E+04	ppm
2	Beryllium	< 2	1.2E+00	1.4E-01	2.9E+03	ppm
2	Copper	< 2	4.2E+01	0.0E+00	0.0E+00	ppm
2	Cyanide	< 2	2.0E+00	0.0E+00	1.2E+04	ppm
2	Lead	< 2	4.7E+04	0.0E+00	0.0E+00	ppm
2	Magnesium	< 2	5.1E+03	0.0E+00	0.0E+00	ppm
2	Manganese	< 2	7.0E+02	0.0E+00	2.9E+03	ppm
2	Silver	< 2	2.0E+00	0.0E+00	2.9E+03	ppm
2	Vanadium	< 2	3.8E+01	0.0E+00	4.1E+03	ppm
2	Zinc	< 2	1.3E+02	0.0E+00	1.7E+05	ppm
3	Acetone	< 2	2.2E+00	0.0E+00	5.8E+04	ppm
3	Arsenic	< 2	8.7E+00	3.3E-01	1.7E+02	ppm
3	Copper	< 2	1.0E+02	0.0E+00	0.0E+00	ppm
3	Lead	< 2	3.7E+03	0.0E+00	0.0E+00	ppm
3	Mercury	< 2	1.1E-01	0.0E+00	1.7E+02	ppm
3	Methylnaphthalene, 2-	< 2	1.4E+04	0.0E+00	0.0E+00	ppm
3	Phenanthrene	< 2	5.2E+02	0.0E+00	0.0E+00	ppm
3	Selenium	< 2	8.4E-01	0.0E+00	2.9E+03	ppm
3	Silver	< 2	6.7E-01	0.0E+00	2.9E+03	ppm
3	Xylene, m-	< 2	4.5E-01	0.0E+00	1.2E+06	ppm
4	Copper	< 2	2.9E+00	0.0E+00	0.0E+00	ppm
4	Lead	< 2	5.4E+01	0.0E+00	0.0E+00	ppm
5	Cyanide	< 2	9.5E-01	0.0E+00	1.2E+04	ppm
5	Manganese	< 2	9.4E+02	0.0E+00	2.9E+03	ppm
5	Selenium	< 2	4.7E-01	0.0E+00	2.9E+03	ppm
5	Silver	< 2	9.0E-01	0.0E+00	2.9E+03	ppm
5	Zinc	< 2	1.6E+02	0.0E+00	1.7E+05	ppm
6	Pyrene	< 2	5.4E+01	0.0E+00	1.7E+04	ppm
7	Copper	< 2	1.3E+02	0.0E+00	0.0E+00	ppm
7	Lead	< 2	5.5E+04	0.0E+00	0.0E+00	ppm
8	Benzo(g,h,i)perylene	< 2	4.4E-01	0.0E+00	0.0E+00	ppm
8	Chrysene	< 2	6.9E-01	0.0E+00	0.0E+00	ppm
8	Lead	< 2	3.7E+02	0.0E+00	0.0E+00	ppm
8	Mercury	< 2	1.8E-01	0.0E+00	1.7E+02	ppm
8	Phenanthrene	< 2	7.9E-01	0.0E+00	0.0E+00	ppm

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
Wilcox Oil Company - 03/27/97

8	Pyrene	< 2	5.6E-01	0.0E+00	1.7E+04	ppm
8	Zinc	< 2	1.3E+02	0.0E+00	1.7E+05	ppm
9	Acetone	< 2	4.8E-02	0.0E+00	5.8E+04	ppm

Documentation for Source Pond 1, Contaminants:

Two high concentration waste samples (WS-01 and WS-02) were collected from different locations within Pond 1 on 20 November 1996.

References: 24

Documentation for Source Pond 2, Contaminants:

One high concentration waste sample (WS-04) was collected from Pond 2 on 20 November 1996.

References: 24

Documentation for Source Pit, Contaminants:

Two high concentration waste samples (WS-05 and WS-06) were collected from the Pit on 20 November 1996. Waste sample WS-06 is a field duplicate of WS-05, and was collected for QA/QC purposes.

References: 24

Documentation for Source (b) (6) Pond, Contaminants:

One sediment sample (SED-05) was collected from the (b) (6) Pond on 19 November 1996.

References: 24

Documentation for Source Tank Bottom, Contaminants:

One high concentration waste sample (WS-08) was collected from the tank bottom area on 20 November 1996.

References: 24

Documentation for Source Tank Bottom ([redacted], Contaminants:

Waste sample WS-03 was collected from the tank bottom area located adjacent to the [redacted] residence on 20 November 1996.

References: 24

Documentation for Source Unvegetated Area, Contaminants:

One soil sample (SS-06) was collected from the unvegetated area on 18 November 1996.

References: 24

Documentation for Source [redacted] Property, Contaminants:

Soil sample SS-05 was collected from the [redacted] yard on 18 November 1996.

References: 24

Documentation for Source [redacted] Property, Contaminants:

Two soil samples (SS-07 and SS-08) were collected from the [redacted] yard on 19 November 1996. Soil sample SS-08 is a field duplicate of SS-07.

References: 24

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 1 Pond 1

Source Hazardous Waste Quantity Value: 1923.08

Hazardous Substance	Toxicity Value
Pyrene	100
Toluene	10
Xylene, m-	1

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 2 Pond 2

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Aluminum	0
Antimony	10000
Arsenic	10000
Barium	10
Beryllium	10000
Copper	0
Cyanide	100
Lead	0
Magnesium	0
Manganese	10000
Silver	100
Vanadium	100
Zinc	10

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 3 Pit

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Acetone	10
Arsenic	10000
Copper	0
Lead	0
Mercury	10000
Methylnaphthalene, 2-	0
Phenanthrene	0
Selenium	100
Silver	100
Xylene, m-	1

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 4 (b) (6) Pond

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Copper	0
Lead	0

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 5 Tank Bottom

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value
Cyanide	100
Manganese	10000
Selenium	100
Silver	100
Zinc	10

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 6 Tank Bottom (b) (6)

Source Hazardous Waste Quantity Value: 0.36

Hazardous Substance	Toxicity Value
Pyrene	100

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 7 Unvegetated Area

Source Hazardous Waste Quantity Value: 0.29

Hazardous Substance	Toxicity Value
Copper	0
Lead	0

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 8 (b) (6) Property

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Benzo(g,h,i)perylene	0
Chrysene	10
Lead	0
Mercury	10000
Phenanthrene	0
Pyrene	100
Zinc	10

5601026

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: 9 (b) (6) [redacted] Property

Source Hazardous Waste Quantity Value: 0.66

Hazardous Substance	Toxicity Value
Acetone	10

CONFIDENTIAL

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	1.92E+03
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

PREScore 4.0
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT TARGETS
Wilcox Oil Company - 03/27/97

Nearby Individual

Population within 1/4 mile: 57.0

Nearby Individual Value: 0.0

Population Within 1 Mile

Travel Distance Category	Number of People	Value
> 0 to 1/4 mile	57.0	0.1
> 1/4 to 1/2 mile	495.0	0.7
> 1/2 to 1 mile	1836.0	1.0
	Population Within 1 Mile Factor:	2.0

Documentation for Population > 0 to 1/4 mile Distance Category:

The population was estimated using the EPA Geographic Exposure Modeling System (GEMS) database, 1990 Census information, and a house count taken during the 1994 PA.

References: 1

Documentation for Population > 1/4 to 1/2 mile Distance Category:

See documentation for above.

References:

Documentation for Population > 1/2 to 1 mile Distance Category:

See documentation for above.

References:

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601029

OBSERVED RELEASE

No.	Sample ID	Distance (miles)	Level of Contamination

- N/A and/or data not specified

==========

Observed Release Factor: 0

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601030

Gas Migration Potential

GAS POTENTIAL TO RELEASE

Source ID	Source Type	Gas Contain. Value (A)	Gas Source Type Value (B)	Gas Migrtn. Potent. Value (C)	Sum (B+C)	Gas Potential to Rel. Value A(B+C)
- N/A and/or data not specified						

Gas Potential to Release Factor: 0

Documentation for Source Type, Source Pond 1:

The source consists of a topographic depression designed to hold liquid and/or sludge wastes.

References: 24

Documentation for Source Type, Source Pond 2:

The source consists of a pond that was historically used to hold liquid wastes.

References: 6, 7

Documentation for Source Type, Source Pit:

The source type "surface impoundment" was selected for the Pit because it is a topographic depression that was designed to hold liquid/sludge wastes.

References: 24

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Documentation for Source Type, Source (b) (6) Pond:

The source type "surface impoundment" was selected because it is a topographic depression that is designed to hold liquid/sludge wastes.

References: 24

Documentation for Source Type, Source Tank Bottom:

The source consists of an area of soils contaminated with tank bottom material.

References: 24

Documentation for Source Type, Source Tank Bottom (b) (6) :

The source consists of an area of soils contaminated with tank bottom material (waste source sample, WS-03).

References: 24

Documentation for Source Type, Source Unvegetated Area:

The source consists of an area of bare, unvegetated soils.

References: 24

Documentation for Source Type, Source (b) (6) Property:

The source consists of contaminated soils documented by a soil sample in the (b) (6) yard.

References: 24

Documentation for Source Type, Source (b) (6) Property:

The source consists of contaminated soils documented by a soil

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

sample collected from the (b) (6) yard.

References: 24

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601033

Source: Pond 1

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Pyrene	6
Toluene	17
Xylene, m-	17

Average of Gas Migration Potential Value for 3 Hazardous Substances: 13.333

Gas Migration Potential Value From Table 6-7: 11

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Source: Pond 2

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value

Average of Gas Migration Potential Value for 3 Hazardous Substances: 0.000

Gas Migration Potential Value From Table 6-7: 0

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601035

Source: Pit

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Acetone	17
Mercury	6
Methylnaphthalene, 2-	11
Phenanthrene	11
Xylene, m-	17

Average of Gas Migration Potential Value for 3 Hazardous Substances: 15.000

Gas Migration Potential Value From Table 6-7: 17

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601036

Source: (b) (6) Pond

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value

Average of Gas Migration Potential Value for 3 Hazardous Substances: 0.000

Gas Migration Potential Value From Table 6-7: 0

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601037

Source: Tank Bottom

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value

Average of Gas Migration Potential Value for 3 Hazardous Substances: 0.000

Gas Migration Potential Value From Table 6-7: 0

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Source: Tank Bottom (b) (6)

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Pyrene	6

Average of Gas Migration Potential Value for 3 Hazardous Substances: 6.000

Gas Migration Potential Value From Table 6-7: 6

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601039

Source: Unvegetated Area

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value

Average of Gas Migration Potential Value for 3 Hazardous Substances: 0.000

Gas Migration Potential Value From Table 6-7: 0

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601040

Source: (b) (6) Property

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Chrysene	6
Mercury	6
Phenanthrene	11
Pyrene	6

Average of Gas Migration Potential Value for 3 Hazardous Substances: 7.667

Gas Migration Potential Value From Table 6-7: 11

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601041

Source: (b) (6) Property

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Acetone	17

Average of Gas Migration Potential Value for 3 Hazardous Substances: 17.000

Gas Migration Potential Value From Table 6-7: 17

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Particulate Migration Potential

PARTICULATE POTENTIAL TO RELEASE

Source ID	Source Type	Partic. Contain. Value (A)	Partic. Source Type Value (B)	Partic. Migrtn. Potent. Value (C)	Sum (B+C)	Partic. Potential to Rel. Value A(B+C)
- N/A and/or data not specified						

Particulate Potential to Release Factor: 0

Documentation for Source Type, Source Pond 1:

The source consists of a topographic depression designed to hold liquid and/or sludge wastes.

References: 24

Documentation for Source Type, Source Pond 2:

The source consists of a pond that was historically used to hold liquid wastes.

References: 6, 7

Documentation for Source Type, Source Pit:

The source type "surface impoundment" was selected for the Pit because it is a topographic depression that was designed to hold liquid/sludge wastes.

References: 24

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Documentation for Source Type, Source (b) (6) Pond:

The source type "surface impoundment" was selected because it is a topographic depression that is designed to hold liquid/sludge wastes.

References: 24

Documentation for Source Type, Source Tank Bottom:

The source consists of an area of soils contaminated with tank bottom material.

References: 24

Documentation for Source Type, Source Tank Bottom ((b) (6)):

The source consists of an area of soils contaminated with tank bottom material (waste source sample, WS-03).

References: 24

Documentation for Source Type, Source Unvegetated Area:

The source consists of an area of bare, unvegetated soils.

References: 24

Documentation for Source Type, Source (b) (6) Property:

The source consists of contaminated soils documented by a soil sample in the (b) (6) yard.

References: 24

Documentation for Source Type, Source (b) (6) Property:

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

The source consists of contaminated soils documented by a soil sample collected from the (b) (6) yard.

References: 24

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Source: Pond 1

Particulate Hazardous Substance
Pyrene

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Source: Pond 2

Particulate Hazardous Substance
Aluminum
Antimony
Arsenic
Barium
Beryllium
Copper
Cyanide
Lead
Magnesium
Manganese
Silver
Vanadium
Zinc

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Source: Pit

Particulate Hazardous Substance
Arsenic
Copper
Lead
Mercury
Methylnaphthalene, 2-
Phenanthrene
Selenium
Silver

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Source: (b) (6) Pond

Particulate Hazardous Substance
Copper
Lead

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Source: Tank Bottom

Particulate Hazardous Substance
Cyanide
Manganese
Selenium
Silver
Zinc

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

5601050

Source: Tank Bottom ([redacted])

(b) (6)

Particulate Hazardous Substance
Pyrene

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Source: Unvegetated Area

Particulate Hazardous Substance
Copper
Lead

PREScore 4.0
AIR PATHWAY LIKELIHOOD OF RELEASE
Wilcox Oil Company - 03/27/97

Source: (b) (6) Property

Particulate Hazardous Substance
Benzo(g,h,i)perylene
Chrysene
Lead
Mercury
Phenanthrene
Pyrene
Zinc

PREScore 4.0
AIR PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Source: (b) (6) Property

Particulate Hazardous Substance

PREScore 4.0
AIR PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

5601054

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value

PREScore 4.0
AIR PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

Hazardous Substances Found in an Observed Release

Sample ID	Observed Release Hazardous Substance	Particulate Toxicity/ Mobility Value	Gas Toxicity/ Mobility Value

- N/A and/or data not specified

- N/A and/or data not specified

PREScore 4.0
AIR PATHWAY WASTE CHARACTERISTICS
Wilcox Oil Company - 03/27/97

5601056

Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	0.00E+00
Sum of Source Hazardous Waste Quantity Values:	0.00E+00
Hazardous Waste Quantity Factor:	0
Waste Characteristics Factor Category:	0

AIR PATHWAY TARGETS

PREScore 4.0

Wilcox Oil Company - 03/27/97

5601057

Actual Contamination

No.	Sample ID	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Potential Contamination

Distance Categories Subject to Potential Contamination	Population	Value
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000

Nearest Individual Factor

Distance in miles: Potentia

- N/A and/or data not specified

Resources

Resource Value: 4.935385869982639780000000000000000000000e+257

PREScore 4.0
%2d %-20.20s %5.3lf %-10.10s
Wilcox Oil Company - 03/27/97

5601059

Actual Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value

- N/A and/or data not specified

Actual Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value

- N/A and/or data not specified

==========

(Sum of Sensitive Environments + Wetlands Values)

Potential Contamination, Sensitive Environments

Sensitive Environment		Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10
			4.935385843404746150000000000000000000000e+257		
24940	0.0000		6.966985983755210970000000000000000000000e+199		

Sum of Sensitive Environments Weighted Values/10: 0.000

Potential Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value	Distance Weight	Weighted Value/10

- N/A and/or data not specified

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PREScore 4.0
REFERENCES
Wilcox Oil Company - 03/27/97

1 State of Oklahoma, Department of Environmental Quality (ODEQ). 1994. Preliminary Assessment of the Wilcox Oil Company, Bristow, Creek County, Oklahoma. 15 December 1994.

2 USGS (U.S. Geological Survey). 1973. Bristow Quadrangle, Oklahoma (7.5-minute series topographic map).

3 WESTON. 1996. Field Logbook Notes for the Wilcox Oil Company site. 16 August 1996; 18-20 November 1996.

4 Not Used.

5 Not Used.

6 Ace Aerial Photo Service. Aerial Photographs for portions of Section 29, Township 16 North, Range 9 East: 1956, 1966, 1976, 1985.

7 Aerial Oklahoma, Inc. 1995. Aerial Photograph for portions of Section 29, Township 16 North, Range 9 East.

8 Not Used.

9 Williams, D.G. 1996. Personal communication with Mr. (b) (6) property owner.

10 Not Used.

11 Not Used.

12 Not Used.

13 Not Used.

14 WESTON. 1997. Net Annual Precipitation Calculation. Houston, Texas.

15 Not Used.

16 Not Used.

17 Federal Emergency Management Agency. 1981. Flood Hazard Boundary Map, Creek County, Oklahoma (Unincorporated Area). Community Panel Number 400490 007 A. 19 May 1981.

18 U.S. Department of Commerce. 1961. Rainfall Frequency Atlas. 2-year, 24-hour Rainfall for the United States.

PREScore 4.0
REFERENCES
Wilcox Oil Company - 03/27/97

19 Not Used.

20 Not Used.

21 Williams, D.G. 1997. Personal Communication with Mark Ambler, Oklahoma Fish and Wildlife, 26 February 1997.

22 U.S. Department of Agriculture, Soil Conservation Service. 1959. Soil Survey for Creek County, Oklahoma. May 1959.

23 Not Used.

24 WESTON. 1997. Expanded Site Inspection, Wilcox Oil Company, Bristow, Creek County, OK. March 1997.